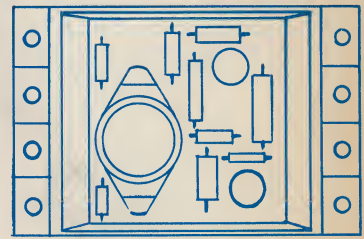


A NEW ADVENTURE IN PREFABRICATED ELECTRONICS



IOR®

INTERNATIONAL RECTIFIER

instant multi-purpose blocks for building sight and sound equipment

WELCOME TO **IR** ELECTRONICSTM



PREFABRICATED... The only tool needed is a screwdriver.

IRectronics is a new idea... created by International Rectifier Corporation from the space-age technology of missiles and satellites. This is **prefabricated electronics!**

It's a unique concept that enables anybody to build his own intricate electronic equipment **easily... and instantly!**

Whether an intercom, remote control system, AM-FM radio, or even a danger blinker...every component part is a completely pre-assembled module. This

self-contained "building block" is an **IRect-o-pak**—a miniaturized, solid-state circuit sealed in lifetime plastic.

For each project only a few economical IRect-o-paks are required. These are put together with nothing more than a screw driver and extremely simple instructions. The finished system's purpose can be quickly expanded, or changed, by adding or substituting one or more of these "blocks."

Making the difficult easy... **this is the miracle of IRectronics.**



Any IRectronic system will take on a Finished Look as well as professional quality when you complete your system with the IRectronic Finished Cabinet. This unique and attractive cabi-

net snaps together in seconds and will house up to 7 IRectronic Systems at the same time.

EH-005

\$2.50

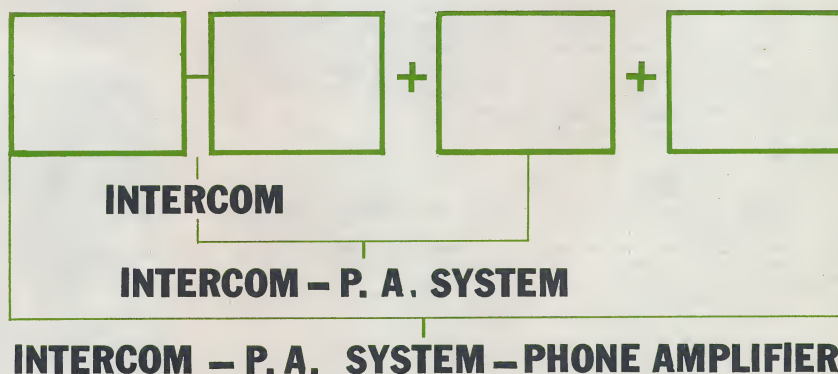
IRELECTRONICSTM

The Big PLUS in Prefabricated Electronics

SIMPLE+ECONOMICAL+VERSATILE

No matter what project you begin with, you can always **increase its original purpose** by simply adding another specific IRect-o-pak or a few low-cost accessories. This is the **multi-purpose concept** behind IRElectronics.

For example: First, you build a deluxe intercom. It's easy and inexpensive. Later on, you can make the intercom become a public address system too... just by adding a crystal microphone (EH-010), jack (EH-003), and plug (EH-004). Still later, this enlarged intercom and Public Address system can be made into a telephone amplifier also. Just add an inductor coil and cable (EH-012). In the future, you can add an AM and/or FM radio tuner, and many other specific IRecto-o-paks to further increase its basic usefulness. **All this from one unit... and all at a fraction of what these electronic products would normally cost.** Nothing could be easier... or more economical.



INTERCOMS—BABY SITTER



WIRELESS INTERCOM

Portable
No Interconnecting Wires

Provides the conveniences you've always wanted. Spending an evening with the neighbors? Take one intercom unit with you—leave another in the children's room! Because there are no interconnecting wires you can move either of them to suit your needs: From room to room, upstairs and down, garage to patio. Saves countless steps, vocal cords, and frazzled nerves. For greater distances, when conventional plug-in power sources are available, use the optional accessory Telescoping Antenna (IRect-o-Pak EH-018). It will give you distances up to a quarter mile. And for greater portability, use the battery-powered IRect-o-pak PR-304 Walkie-Talkie as one unit!

IRect-o-pak EG-207 Wireless Intercom 19.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

EH-002 Speaker EH-005 Cabinet
EH-007 Push-To-Talk Switch EH-018 Telescoping Antenna
EH-008 On-Off Volume Control

May also be used with Walkie-Talkie (Cat. No. PR-304)

Refer to page C-8 for accessory information and pricing.



DELUXE INTERCOM

Accommodates up to 5
Satellite Stations.

Permanent inter-communications between any room in your home . . . any office in your building. Know who's at your door before you open it. (Give them a challenge!) Keep in touch with the work shop—play area—patio. And later . . . add the AM and/or FM radio. Pipe music through-out your home! System is ideal for the home with bedridden or elderly occupants . . . eliminates climbing stairs, saves steps, time, and effort.

IRect-o-pak EA-305 Deluxe Intercom 8.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

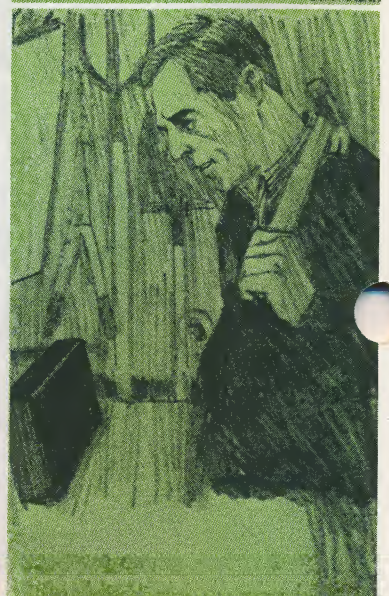
ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

EH-002 Four Inch PM Speaker
EH-007 Push-To-Talk Switch
EH-008 On-Off Volume Control Switch
EH-009 Five Station Selector Switch
EH-011 Four Wire Speaker Terminal-Strip
EH-005 Cabinet

BASIC ACCESSORIES FOR EACH SATELLITE STATION:

EH-002 Four Inch PM Speaker
EH-005 Cabinet

Refer to page C-8 for accessory information and pricing.



AMPLIFIED BABY SITTER

Keep an "Ear" on Baby

New born baby? Children sick? Second floor playroom? What ever the reason, the IRectronics "Amplified Baby Sitter" will allow you to "listen in" through-out your home, anywhere, any time. Let the baby be your alarm clock for the early hour feedings. No need to interrupt your normal routine to "look in" on the children when you have installed your "Amplified Baby Sitter"

IRect-o-pak EA-309 Baby Sitter Amplifier 8.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

EH-002 Four Inch PM Speaker
EH-005 Cabinet
EH-008 On-Off Volume Control Switch

BASIC ACCESSORIES FOR EACH MONITOR STATION:

EH-002 Four Inch PM Speaker
EH-005 Cabinet

When more than one monitoring station is desired,
EH-009 5 Station Selector Switch @ 1.25 required.

Refer to page C-8 for accessory information and pricing.



**PUBLIC ADDRESS AMPLIFIER**

For All Indoor Public Gatherings . . . Give the Audience a Break!

Needed . . . voice amplification. At banquets, assembly halls, dances or conventions—for large groups of people indoors; the IRect-o-Pak Public Address Amplifier is the answer. Business meetings become effective . . . professional. Your audience interested. You're in command, always, with this easily assembled, economical, PA system from IRelectronics.

IRect-o-pak EA-307 Public Address Amplifier 8.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRelectronic projects, you may have any or all of these items.

EH-010 Microphone
EH-002 Speaker
EH-008 On-Off Volume Control Switch
EH-005 Cabinet
EH-003 Microphone Input Jack
EH-004 Microphone Plug

Refer to page C-8 for accessory information and pricing.

**TELEPHONE AMPLIFIER****Group Telephone Conversations**

This IRect-o-Pak has a place in every home and office. Let the whole family talk to relatives across the nation using your regular telephone. Conference conversations from the home office to branch operations . . . let all of the keymen salesmen get the message direct. Convenient suction cup adaptor attaches to any phone and amplifies both sides of the conversation. Also may be used to record telephone conversations.

IRect-o-pak EA-311 Telephone Loudspeaker 8.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRelectronic projects, you may have any or all of these items.

EH-008 On-Off Volume Control Switch
EH-002 Speaker
EH-012 Inductor Coil and Cable
EH-004 Input Plug
EH-005 Cabinet
EH-003 Phone Jack

Refer to page C-8 for accessory information and pricing.

**GUITAR AMPLIFIER****Use with any Stringed Instrument**

This truly phenomenal IRect-o-Pak will transform normal stringed instrument into an electric one in minutes. Perfect for parties, picnics or combos. Priced far below most commercial units, the IRelectronic "Guitar Amplifier" will provide you with dependable, enjoyable amplification of your instrument at a more than reasonable cost.

IRect-o-pak EA-313 Guitar Amplifier 8.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRelectronic projects, you may have any or all of these items.

EH-008 On-Off Volume Control Switch
EH-013 Guitar Microphone
EH-002 Four Inch PM Speaker
EH-003 Phone Jack
EH-004 Plug
EH-005 Cabinet

FOR ADDITIONAL SPEAKER, ACCESSORIES ARE:

EH-002 Four Inch PM Speaker
EH-005 Cabinet

Refer to page C-8 for accessory information and pricing.

AM FM RADIO / SUPER AMP



AM RADIO TUNER

AM Radio Reception

When used in conjunction with an IRect-o-Pak amplifier listed below, the AM tuner will produce one of the finest and most unique radios available anywhere, at any price. Additionally, the AM Radio Tuner may be used to convert your phonograph to an AM-Phono combination. And later, if you like, you may add an IRect-o-Pak Intercom to your radio and fill your home with music. Even though the IRect-o-Pak will perform beautifully with a 6 volt battery, the use of the House Power Converter (IRect-o-Pak EV-206) is recommended if extended use is anticipated. And for extra volume and multiple speaker arrangements, the IRect-o-Pak EA-315 Super Amplifier is suggested.

IRect-o-pak ER-302 AM Radio Tuner14.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

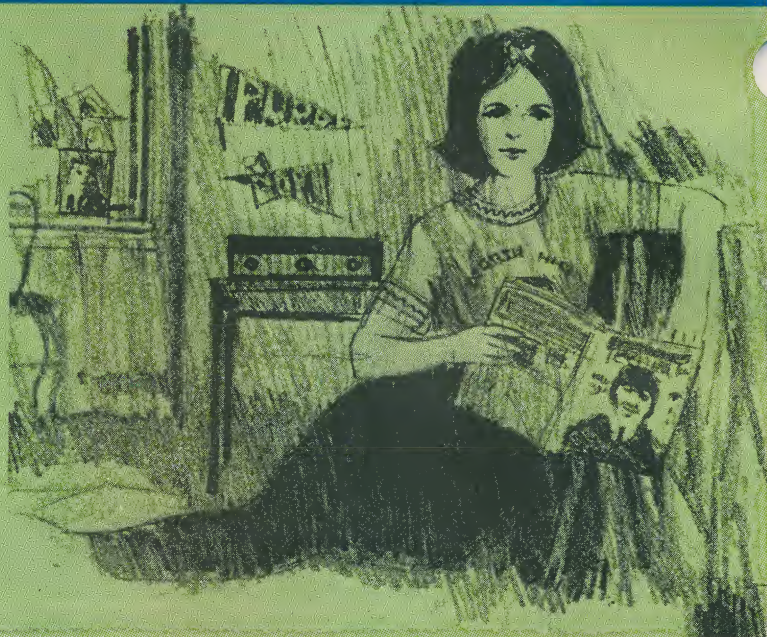
EA-315 Super Amplifier

EH-002 Four Inch PM Speaker

EH-008 On-Off Volume Control Switch

EH-005 Cabinet

Refer to page C-8 for accessory information and pricing.



FM RADIO TUNER

FM Radio Reception

This fantastic IRect-o-pak is the epitome of electronic engineering and compactness. Stacking the components permits the use of a smaller IRect-o-pak thus creating a more versatile unit. With the FM tuner, you may now convert your AM Radio or AM-Phono to an AM/FM unit. If used in conjunction with your Deluxe Intercom, you can provide static free and commercial free music throughout your home. The IRect-o-pak Super Amplifier was designed for use with the FM and AM Radio tuners and if used with either one, will provide additional power and enjoyment in your IRectronic system.

IRect-o-pak ER-303 FM Radio Tuner19.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

EA-315 Super Amplifier

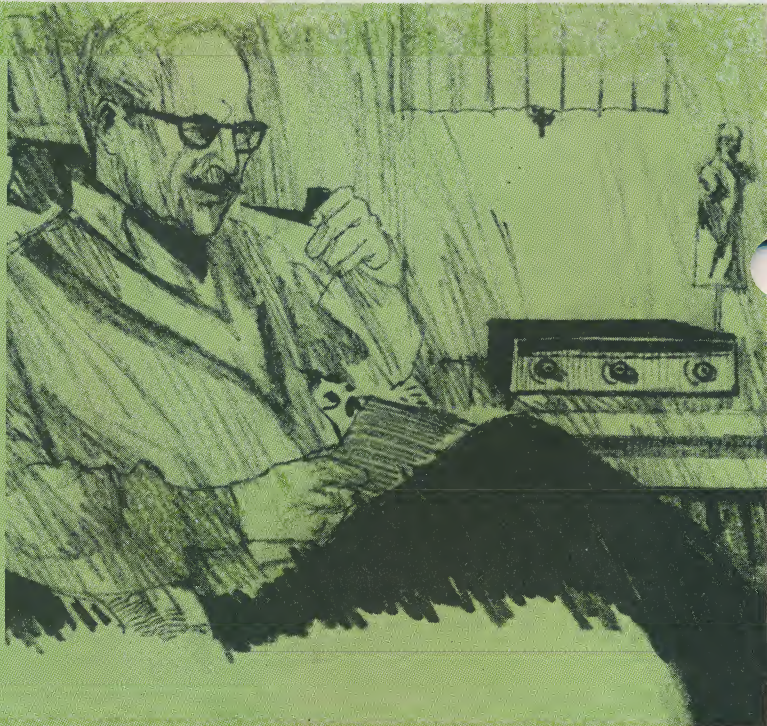
EH-002 Four Inch PM Speaker

EH-008 On-Off Volume Control Switch

EH-005 Cabinet

Note: IRect-o-pak ER-302 (AM Radio Tuner) and IRect-o-pak ER-303 (FM Radio Tuner) are completely interchangeable. Or both may be used together to provide an AM/FM radio. (An additional accessory would be required: EH-009 5 Position Selector Switch @ 1.25). For better reception in fringe areas, add EH-018 Telescoping Antenna @ 2.50.

Refer to page C-8 for accessory information and pricing.



SUPER AMPLIFIER

Four Stage—Two Watt* Amplifier

The Super Amplifier is a universal 4 stage amplifier specifically designed for use with the AM and FM Tuners. It may, however, be used for any of the projects requiring an amplifier and will add additional power when and if required. This amplifier is recommended for use with multiple or high power speakers.

IRect-o-pak EA-315 Super Amplifier*10.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

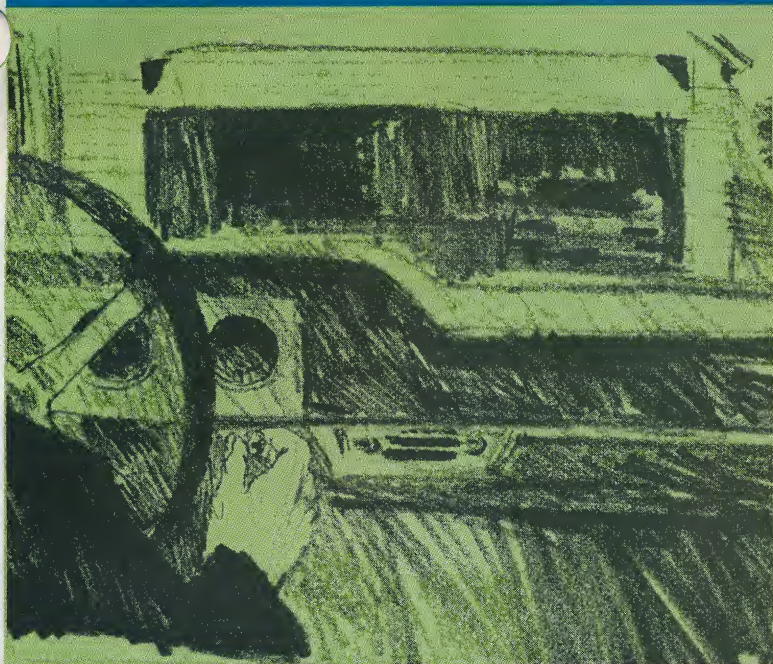
*4-stage 4-transistor amplifier producing approximately 2 watts of power.

Refer to page C-8 for accessory information and pricing.





REMOTE CONTROL TRANS., RECEIVER, ACTUATOR, ELECTRIC EYE AND TELEGRAPH CODE SENDER



REMOTE CONTROL TRANSMITTER AND RECEIVER

Radio Remote Control

Two separate IRect-o-Paks for greater flexibility. A miniature C. B. radio transmitter in one; a miniature radio receiver in the C. B. frequency range in the other. Together they generate and receive the controlling signal so that it will . . . open garage doors . . . turn on your house lights . . . remotely control model cars, boats, and planes, etc. Virtually a thousand and one uses. Where ever remote control is required, they fill the bill. Several such projects are listed below. Most remote control projects also require a Remote Control Actuator. An IRect-o-Pak answers this need too! It's listed below.

IRect-o-pak EC-601 Remote Control Transmitter 9.95

IRect-o-pak EC-603 Remote Control Receiver 9.95

Plus your choice of power source . . . batteries (6 or 9 Volt)
EV-206 or EV-209 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

EH-007 Push-Button Switch

EC-403 Control Actuator

EH-015 Metal Box

EH-018 Telescoping Antenna

Refer to page C-8 for accessory information and pricing.



REMOTE CONTROL ACTUATOR & ELECTRIC EYE

Automatic control via any light source

This IRect-o-Pak is the control unit for most of the projects involving the Remote Control Transmitter and Receiver. With the addition of an accessory solar cell to this IRect-o-Pak, you may substitute a light source for the radio signal. For example, you can then open your garage door with your car headlights; turn on house lights as the sunsets; assemble a fool proof burglar alarm; . . . or even turn on your porch light with your headlights.

IRect-o-pak EC-403 Control Actuator 8.95

Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

EH-015 Metal Case

EH-014 Solar Cell

Refer to page C-8 for accessory information and pricing.



TELEGRAPH CODE SENDER

Learn and Practice Morse Code

This Unique and compact IRect-o-pak is ideal for anyone who wants to learn or brush up on Morse code. May be used with either the house power converter or any 6 volt battery. Simple instructions provide the use of two units so that two persons may practice and send code to one another.

IRect-o-pak EG-101 Telegraph Code Sender 4.95

Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

EH-001 Telegraph Key

EH-002 Four Inch PM Speaker

EH-005 Cabinet

EH-003 Phone Jack

EH-004 Standard Phone Plug

Refer to page C-8 for accessory information and pricing.

ELECTRONIC METRONOME

Keeps Musical Tempo

More accurate than conventional models, the IRectronics Electronic Metronome is a perfect project for the music student in your family. Much less expensive than the mechanical type yet assures perfect tempo for any musical instrument. Speed control permits infinite tempo selection on calibrated dial.

IRect-o-pak EC-401 Metronome 4.95
Plus your choice of power source . . . batteries or EV-206 House Power Converter for permanent reliability and long run economy.

ACCESSORIES: Remember! If you have other IRectronic projects, you may have any or all of these items.

EH-008 On-Off Tempo Control Switch

EH-002 Four Inch PM Speaker

EH-005 Cabinet

Refer to page C-8 for accessory information and pricing.



AC TO DC CONVERTERS—ACCESSORIES

CHANGE AC TO DC WITH IRECT-O-PAK HOUSE POWER CONVERTERS

Voltage Regulated Power Supplies, 6, 9, and 12 volts . . . The Keys to Home IRectronics!

The 6 volt converter (EV-206) is the one basic IRect-o-Pak common to all others. It is the source of supply voltage for IRectronics in the home and office. It insures the IRectronics hallmark . . . safe economical operation from your ordinary plug-in electrical supply. But without one other IRect-o-Pak, you can put these converters to work! Lantern type and conventional six volt batteries are found in many radios; numerous cars. The 6 volt IRect-o-Pak will charge 'em up, extend their life. The most common battery used in portable radios today is the nine volt type. EV-209, the IRect-o-Pak 9 volt converter, will recharge the battery—keep that transistor radio playing for hours, economically. And automobile 12 volt systems can be charged with economy and convenience, overnight, with IRect-o-Pak EV-212's trickle charge. All three of these power supplies are designed for the laboratory. They are perfect for low voltage power applications. They are solid state, voltage regulated power supplies . . . less than 1% ripple. And all three can be used in absolute safety. Like a battery, voltage is so low, there is no fear of shock . . . no possible danger.

IRect-o-pak
EV-206 6 Volt House Power Converter 14.95
EV-209 9 Volt House Power Converter 14.95
EV-212 12 Volt House Power Converter 14.95



ACCESSORIES FOR IRECT-O-PAKS

For Your Convenience . . .

Here is a list of tailored IRectronics Accessories. They are made easily available, are thoroughly proven, and are economically priced to aid you with your project. Each is guaranteed by International Rectifier Corporation. Choose them with confidence. For those who prefer to use other accessories (Perhaps you have them already!) . . . you may do so! No need to purchase what you do not need. Not with IRectronics. We've planned it that way.

ACCESSORIES

EH-001	Telegraph Key	.....\$1.50
EH-002	4", 45 ohm, PM speaker	..... 2.95
EH-003	Standard phone jack	..... .35
EH-004	Standard phone plug	..... .35
EH-005	Finished Cabinet to be used as equipment cabinet and/or external speaker cabinet	..... 2.50
EH-007	Push to Talk Switch or Push Button Switch	..... .95
EH-008	On-Off Volume or Tempo Switch	..... .95
EH-009	5 position station selector switch	..... 1.25
EH-010	Crystal Microphone, stand & lavalier	..... 4.95
EH-012	Inductor Coil. For use with telephone amplifier	..... 2.95
EH-013	Guitar Microphone	..... 2.95
EH-014	Solar Cell	..... 1.95
EH-015	Metal box for Remote control IRect-o-paks	..... 1.95
EH-016	Trumpet Speaker, miniature	..... 6.95
EH-017	Universal Battery Adaptor for portable IRect-o-paks	..... 2.50
EH-018	Telescoping C.B. antenna for use with Walkie-Talkie & Wireless Intercom	..... 4.95
EH-020	PM Microphone/Speaker combination for use with Walkie-Talkie	..... 4.95

I^RELECTRONICSTM

- Now, a single 6 volt battery (or 4 flashlight batteries) can power a world of useful electronic instruments for home and outdoor use.
- This is the Universal Battery adaptor for all of the portable battery operated IRectronics. . . case fits all IRectro-Paks. To change from a boat horn to a Walkie-Talkie, just snap in the appropriate "Pak".
- Holds any 6 volt "lantern" battery or 4 "D" cell flashlight batteries.
- Just snap "Pak" into place.
- Separate Irectro-Pak for each purpose.
- Completely interchangeable.



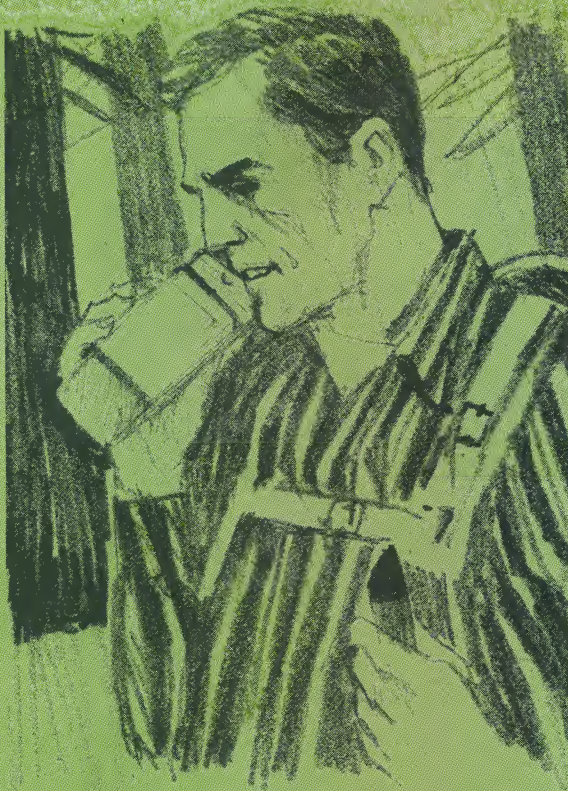
"Wonderful World of Portable Power"



Universal battery adaptor

EH-017 \$2.50

WALKIE-TALKIE, P.A. SYSTEM



WALKIE-TALKIE

Portable Communications . . . Anywhere!

Definitely not a toy! Unquestionable quality. And the best Walkie-Talkie buy on the market! Today, an absolute communications must for thousands. Just snap the IRect-o-pak on the Universal Battery adaptor, plug in the accessories and you're ready to transmit and receive. Ideal for the yard foreman when used in conjunction with the IRectronic Wireless Intercom EG-207. Countless uses around the home, and in the open country for camper, and hunter.

Basic Accessories

PR-304	Walkie-Talkie IRect-o-pak	19.95
EH-020	Microphone/Speaker	4.95
EH-004	Phone Plug .....	.35
EH-018	Telescoping Antenna	2.50



PUBLIC ADDRESS SYSTEM

Confidence . . . for the Voice of Command.

For Leadership in sales meetings, public functions, crowd control, conventions, virtually anywhere that large groups of people are assembled, this portable Irect-o-pak is a must. Don't rely on others to provide the P.A. System. Carry your own with you . . . and avoid the last minute crises. Light weight and compact . . . just snap the P.A. IRect-o-pak on to the Universal Battery Adaptor . . . plug in the microphone and speakers and you are ready for anything.

Basic Accessories

PA-303	Public Address System IRect-o-pak	9.95
EH-010	Crystal Microphone and Stand	4.95
EH-004	Phone Plug (2 required)	ea. .35
EH-002	Speaker	2.95
EH-005	Cabinet	2.50



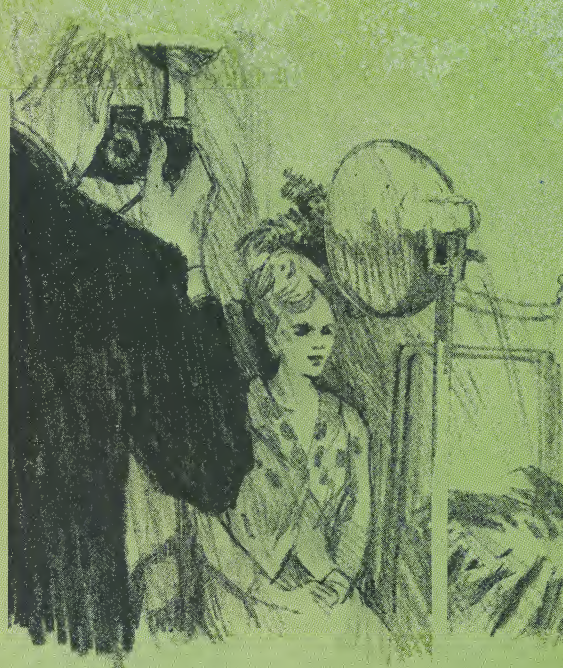
GUITAR AMPLIFIER

Portable amplification of any Stringed Instrument

The portable IRect-o-Pak "Guitar Amplifier" will appeal to amateur and professional musicians alike. All may take their instruments with them to outings, picnics, patio parties, . . . anywhere. Priced far below any commercial equivalent on the market this unique IRect-o-pak will convert any stringed instrument into an electronically amplified instrument and provide many years of trouble-free use and enjoyment.

Basic Accessories

PA-313	IRect-o-pak Guitar Amplifier	9.95
EH-004	Phone Plugs (2 required)	ea. .35
EH-002	Speaker	2.95
EH-005	Cabinet	2.50
EH-013	Guitar Microphone	2.95



REMOTE PHOTO-FLASH SLAVE

Studio Lighting Anywhere

A commercial photographer's professional touch can be yours through IRectronics. This IRect-o-pak is that needed second flash unit: An additional light source that may be placed anywhere. No need to carry bulky flood lights when the portable, lightweight and compact IRect-o-pak is available. Use any existing flash reflector (clamp on type suggested), plug it into the IRect-o-pak, and the light from the camera flash activates the slave instantly. Ideal for location shots where AC outlets are unavailable. The unusually low price makes this professional type equipment practical for amateur and beginner alike.

Basic Accessories

PA-203	Remote Photoflash IRect-o-pak	8.95
EH-004	Phone Plug .....	.35



DANGER BLINKER-BEACON

Combination Warning Light & Beacon Light

Across the nation, the Danger Blinker-Beacon belongs in every car, boat, and camper's pack. Unlike the Thermal-Resistance type blinker, the IRect-o-pak unit is impervious to vast temperature changes and will provide a constant, dependable flashing signal anywhere, any time. With the flip of a switch you convert the Danger Blinker into a powerful penetrating beacon. Yachtsmen, motorists and campers alike will soon find this multi-purpose IRect-o-pak indispensable.

Basic Accessories

PC-401	Danger Blinker IRect-o-pak	4.95
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LOUD HAILER — BOAT HORN

**LOUD HAILER—TRANSISTORIZED MEGAPHONE**

Ahoy there . . . !

This transistorized Loud Hailer is an absolute necessity for all yachtsmen. Completely portable, it will project your voice over 500 feet through any kind of weather. Also ideal for use at picnics, ball games . . . any place you want to be heard loud and clear.

Basic Accessories

PA-300	Loud Hailer IRect-o-pak	8.95
EH-010	Microphone	4.95
EH-004	Phone Plug (2 required)	ea. .35
EH-016	Trumpet Speaker	6.95

**TRANSISTORIZED BOAT SIGNAL HORN**

Any Purpose Warning Signal

A boat signal horn loud enough to be heard hundreds of yards at the touch of a button. The yachtsmen will find this IRect-o-pak indispensable for use as a fog horn . . . warning signal or just to open those bridges! Additionally, any outdoors man or woman will find a multitude of uses for this unit—such as a sounding device for lost children on a camping trip, or to call the children in for lunch!

Basic Accessories

PG-103	Transistorized Boat Signal	
	Horn IRect-o-pak	8.95
EH-016	Trumpet Speaker	6.95
EH-004	Phone Plug .....	.35

IR ELECTRONICSTM

TOY AND HOBBY PRODUCTS



NEW LIGHTRONIC II CAR KIT

Operate the Lightronic II by remote control from 10 to 15 feet away, with only a flashlight! This amazing car starts, stops and varies speed by merely shining a light on the solar cell, which activates the electronic command circuit. Steering can be manually adjusted for circling or for a straight away run. Great to race another Lightronic Car.

Kit builds a model sports car of high impact styrene, incorporating a genuine satellite solar cell and a 2 transistor electronic command circuit. Requires 2 flashlight "D" cells (not included). Can be assembled with ease by a 10 year old. Packaged in colorful lithographed box with See-Thru window, and completely wrapped in clear plastic.

Box Size: 19 x 11 x 2½
Model EP-42

Std. Pack: 12 each; Wt.: 20 lbs.
Suggested Retail \$10.95



A Size And Type For Every Age . . .
For Every Interest . . . For Every
Degree Of Knowledge!



4 SCIENCE LABS

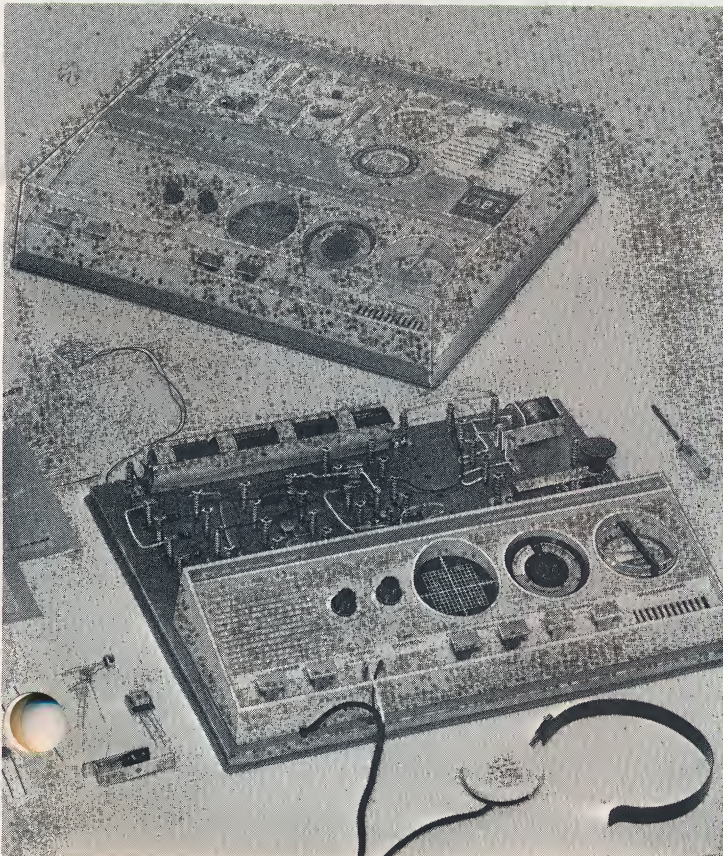
The remarkable space age silicon Solar Cell is an exclusive feature found only in IR toy and hobby products. Solar Cell converts light directly into electrical energy offering a new thrill found only in projects created from these fully equipped, engineer-designed kits. Sealed plastic case provides protection and easy handling. Solar Cell never loses its power . . . lasts indefinitely.

SOLAR ENERGY AND TRANSISTOR
ELECTRONICS LAB 3

The most complete electronics project lab available. Builds over 70 different projects and experiments. This unit includes all of the exclusive features of the other International Rectifier Electronic Labs, plus the components to build an Amplifier, Public Address System, Intercom, Telephone Pick-up, Electronic Timer, and many more circuits simulating those in missile guidance, computers, etc. Every component is of the professional quality used in commercial and industrial equipment. This advanced lab is as simple to assemble as the basic unit. Plastic case 16½ x 14 x 3½.

Std. Pack: 3 each; Wt.: 20 lbs.
Model EP-22

Suggested Retail \$44.95



**BASIC ELECTRICITY AND SOLAR POWER**

This basic lab provides an excellent introduction into basic electricity and the conversion of sun-light to electrical energy. Builds a Chemical Battery, Signal Circuit, Telegraph, Lightmeter, etc., and performs other exciting experiments. Sturdy plastic control panel contains a "scope" with indicator lights, signal buzzer, galvanometer, and push buttons. Packaged in lithographed box with See-Thru window.

Box Size: 14 x 11½ x 3½ Std. Pack: 6 each; Wt.: 14 lbs.
Model EP-10 Suggested Retail \$14.95

**SOLAR ENERGY AND TRANSISTOR ELECTRONICS LAB 1**

Builds more than 30 fascinating projects, many operating directly from the electricity produced by the genuine satellite solar cell. Among them are 2 different radios, sun operated "wake-up" alarm, phone and code transmitter. Includes Solar Cell, Transistor, Earphone, Tuner, and many other components, all of which are mounted in removable expanded poly-styrene tray. Handsome control panel and tray are protected by heavy, clear plastic case. Requires 4 "C" type batteries (not supplied).

Box Size: 16½ x 14 x 3½ Std. Pack: 6 each; Wt.: 27 lbs.
Model EP-20 Suggested Retail \$24.95

**SOLAR ENERGY AND TRANSISTOR ELECTRONICS LAB 2**

Over 50 basic and intermediate projects in this advanced kit. Builds all projects in Lab 1, plus Burglar and Fire Alarm System, Radios and Voice Transmitter. Magnificent master control panel allows testing and experimenting just like an engineer or scientist. Packaged in beautiful, heavy, clear plastic case. Requires 4 "C" type batteries (not supplied).

Case Size: 16½ x 14 x 3½ Std. Pack: 3 each; Wt.: 20 lbs.
Model EP-21 Suggested Retail \$34.95

EDUCATIONAL SCIENCE LABS AND KITS



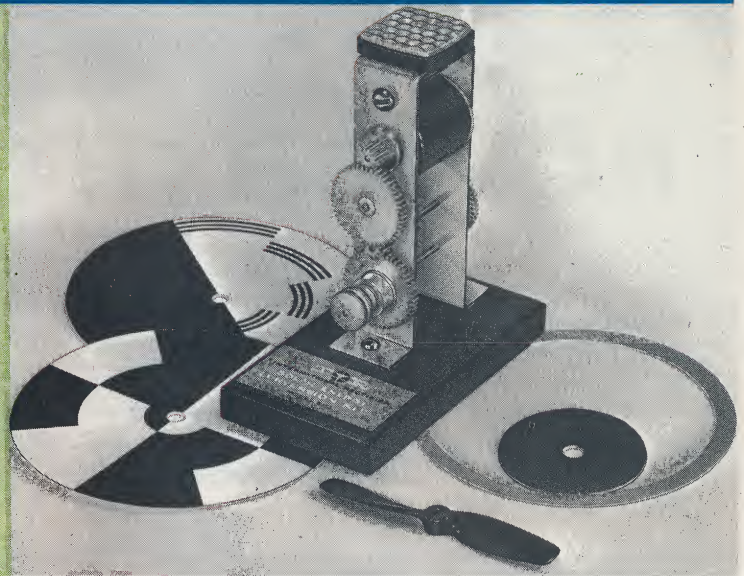
SOLAR ENERGY CONVERSION KIT

Basic solar "sun battery" energy conversion kit clearly demonstrates how solar power is converted to electrical and mechanical energy. The solar cell converts light into electricity to drive an electric motor. Included in kit are reduction gears, pulley, propeller, optical illusion disks, full instructions. Easy to use, this kit is unexcelled for use in school science projects, as well as for powering small models and performing optical illusions. Packed in beautiful new self-display picture window box.

Box Size: 15 x 10 x 2½

Std. Pack: 12 each; Wt.: 7 lbs.

Model EP-1A Suggested Retail \$9.95



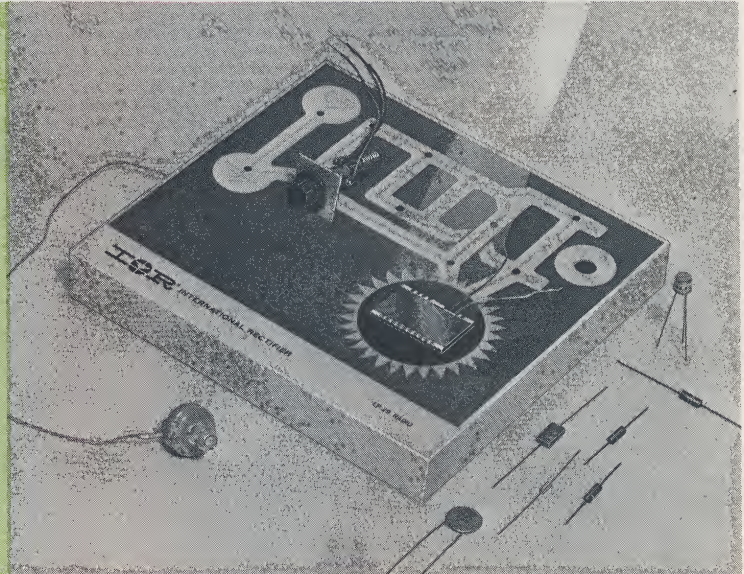
NEW SOLAR RADIO KIT

It is fascinating to power a transistor radio by the sun. And that's exactly what the owner of the Solar Radio can do. The exclusive I.R. photo-cell (which never wears out) converts either sun light or artificial light into electricity to power this set. Kit is easy to assemble for 9 or 10 year olds. Comes complete with clear step-by-step instructions, photo-cell, transistor, germanium crystal diode, and earphone. The insert makes an attractive control console. All packed in See-Thru, clear plastic wrapped box.

Box Size: 15 x 10 x 2½

Std. Pack: 12 each; Wt.: 15 lbs.

Model EP-29 Suggested Retail \$7.50



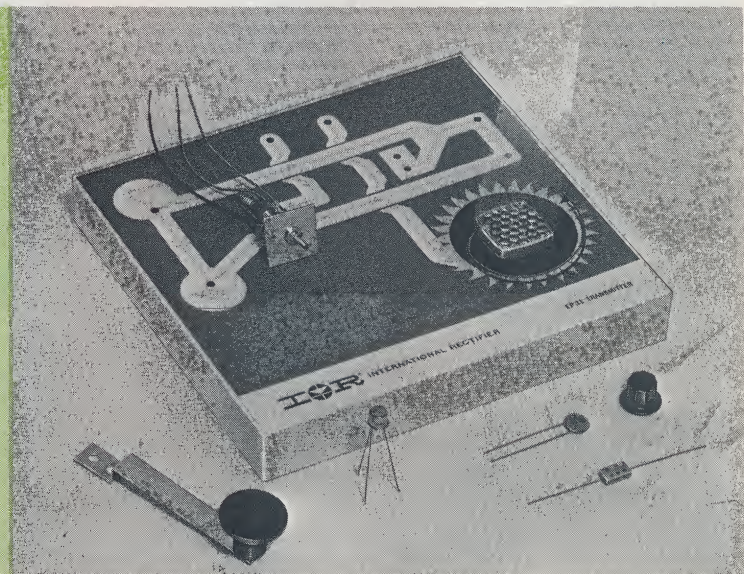
NEW SATELLITE TRANSMITTER

A solar powered code transmitter that "beeps" code just like the real satellite transmitters! Operates on the same principle, too. Powered indefinitely by a solar cell, the transmitter sends signals to any nearby house radio, and is ideal for practicing Morse Code. Kit is fun to assemble, with no tools, soldering or batteries required. Comes packed with solar cell, telegraph key, transistors, resistors, etc. Insert makes into attractive control console. Self display window box.

Box Size: 15 x 10 x 2½

Std. Pack: 12 each; Wt.: 15 lbs.

Model EP-31 Suggested Retail \$6.50





YOUR CAR'S IGNITION SYSTEM IS NOW OBSOLETE!

INSTALL ENTIRELY NEW

POWERTRON

SOLID STATE IGNITION SYSTEM

- ☐ Add 10% to 20% gas mileage.
- ☐ Extend the life of plugs, points, battery, distributor cap.
- ☐ Go twice as long between tune-ups.
- ☐ No power loss at high R.P.M.
- ☐ Power evenly distributed across R.P.M. spectrum.
- ☐ Less battery drain, carbon deposits and distributor strain.

FULL WRITTEN WARRANTY
FOR THE LIFE OF THE CAR

No coils to replace and no soldering! Simple A, B, C, instructions. Exclusive Solid State electronic system* replaces resistors and resistor wires. Combines advantages of transistorized and conventional ignitions.

Cat. No. K-200

\$24.95

*Patent pending.

**Now! Any Transistor
Radio can be Powered
by the Sun!**

IR TRANSISTOR SOLAR RADIO PACKS

I.R.'s research and development as well as mass production of silicon solar cells have finally brought the price of these high output cells within the area of practical use. These Transistor Radio Solar Packs represent just one application. I.R.'s Transistor Radio Solar Packs are available in two of the most popular voltage ratings: 4.5 volts and 9 volts. Both types are designed to feed a constant charge to the batteries while the Solar Packs are supplying the radio with its power. Both types are housed in a handsome plastic case which protects the solar cells from damage. The Transistor Radio Solar Packs are supplied with unique mounting pads which attach easily to any radio case or cover. No soldering necessary because the 6" leads are supplied with battery terminals as well as complete instructions.

- ☐ Available in 4.5 volt and 9 volt ratings.
- ☐ Sealed in damage-resistant plastic case.
- ☐ Attach instantly to any radio case with unique mounting pads.
- ☐ No soldering. Battery terminals attached.
- ☐ Battery is charged as radio plays.
- ☐ Complete easy-to-follow instructions included.

Part No.	Nominal DC Output		Light Intensity	Operating Temp.	Approx. Dimensions Inches	Price List
SP5G26C	Volt 4.5	MA 26	100 MW/CM2 of sunlight or tungsten equivalent	28°C	3" x 1 3/4" x 3/8"	9.95
SP9G13C	9.0	13	100 MW/CM2 of sunlight or tungsten equivalent	28°C	3" x 1 3/4" x 3/8"	9.95

**Sun light Converted Directly
into Electricity by IR SOLAR PACKS**

SATELLITE-TYPE SILICON SOLAR CELLS

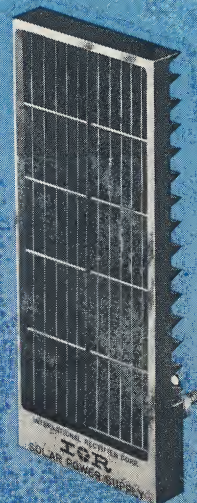
- Operates electronic equipment ☐ or charges batteries.
- Sealed in anod black plastic case. ☐
- Adjustable exposure angle. ☐
- Cannot discharge battery when ☐ cells not illuminated.
- For higher voltage or current, ☐ several "Solarpacks" can be connected.

Cat. No.	Approx. Output*		Size (Except Term. Screws)	To charge these batteries	Net Prices	
	Volt	MA			1-9	10-99
SP8E30A	7.5 to 8	30	5" x 2" x 1/2"	4 or 5 NiCd cells or 3 lead-acid cells (5 to 6V)	24.95	22.50
SP16F30A	15-16	30	5" x 4" x 1/2"	12V batteries	46.95	42.25

*In bright sunlight. For complete technical specifications, request Bulletin SR-402.

Solar power supply for operation of electronic equipment or charging batteries directly from sunlight

IR Solarpacks convert sunlight directly into electricity, using space satellite type silicon solar cells. IR Solarpacks are housed in anodblack plastic molded case, with the active cell area encased in weather and heat resistant epoxy. Mounting hardware furnished permits fastening to walls or masts. Exposure angle is adjustable. Three corrosion resistant terminals are provided, two connecting directly to cells, the third to negative terminal through a blocking diode for use in battery charging (to prevent discharge of battery when cells are not illuminated). If higher voltages or greater current is required, than available from standard solarpacks, several units may be connected in series or parallel.



PREFABRICATED ELECTRONICS

...a new idea that lets you instantly construct electronic equipment for use in and out of your home—with just a screw driver. A wide range of practical projects.



IOR
INTERNATIONAL RECTIFIER

FORM JD-107

ADDITIONAL **IR**ECTRONIC® PROJECTS

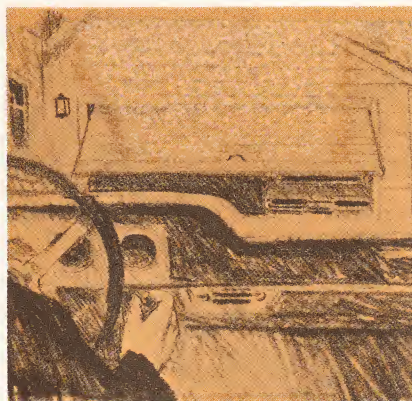
Wireless Intercom System

To communicate anywhere in home or office...even home to home. Portable...just plugs in. Not dependent on house wiring. True radio transmission and reception.



Remote Control Transmitter & Receiver

Radio control for garage doors, model planes, etc.

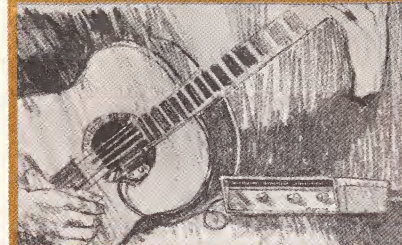


Remote Control Actuator & Electric Eye

To control house lights, open garage doors, activate burglar alarms, etc.



AM and/or FM Radio
Complete reception of AM and FM Radio Bands.



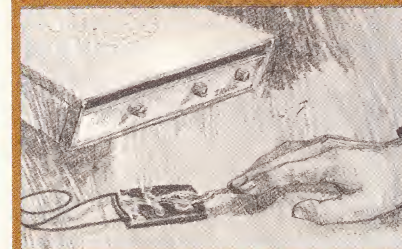
Guitar Amplifier
Electronic amplification for any non-electric stringed instrument.



Super Amplifier
Super power for any IRElectronic project. Ideal when multiple speakers are used.



Electronic Metronome
To keep musical tempo...perfectly.



Telegraph Code Sender
To learn and practice Morse Code.



Auto Battery Charger
(AC to DC House Power Converter)
Trickle-charge for auto and portable batteries... power for workshop.

IRELECTRONICS®

GO PORTABLE!

Portable, Battery Powered

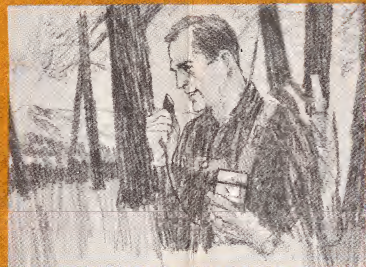
IRELECTRONIC Projects

What's your pleasure? Boat horn? P.A. System? Walkie Talkie? Simply slide a 6-volt lantern battery (or 4 flashlight batteries) into the Universal Battery Adapter. Next, snap the appropriate IRect-o-pak on top of the Adapter. Then, add a few plug-in accessories, and you're ready for action. It's that fast...that simple! To change functions, just change IRect-o-paks and accessories. Your battery and Adapter Case power seven different projects...all portable...all guaranteed...all at a fraction of their normal cost.



GUITAR AMPLIFIER

Picnics, outings, patio parties, anywhere. Electronic amplification for any non-electric stringed instrument. No need for house power. You bring the power with you for this and all other portable IRectronic projects.



WALKIE-TALKIE

No toy! Without equal for performance and value. Use on the job, around your home, anyplace where wireless communication is desired. May also be used in conjunction with the IRectronic Wireless Intercom for additional flexibility and convenience.



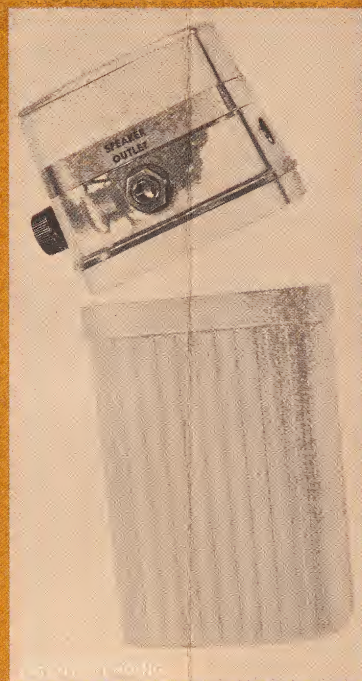
PUBLIC ADDRESS SYSTEM

Sales meetings, public functions, crowd control, anywhere that large groups of people are assembled, this is a must. Don't rely on the hall to provide the P.A. system. Carry your own with you. Snaps on Universal Battery Case, naturally, for minimal cost and utmost versatility.



REMOTE PHOTO-FLASH SLAVE

A second flash unit! Snap on the IRect-o-pak. Plug in any flash reflector. A solar cell activates the "slave unit" instantly from the light of the flash at the camera, for your entirely portable additional light source.



UNIVERSAL BATTERY ADAPTER

Powers all seven portable IRect-o-paks with 6-volt battery or 4 flashlight batteries. Rugged, high-impact plastic.



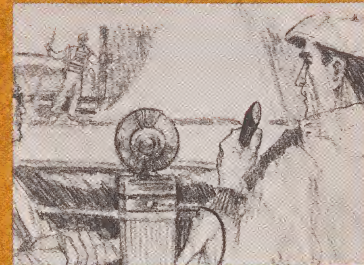
TRANSISTORIZED BOAT SIGNAL HORN

A warning signal heard hundreds of yards away at the touch of a button. Just snap this IRect-o-pak on the Battery Adapter and plug in the accessory. A must for yachtsmen, but think of the safety precaution of taking one with you on a hunting or camping trip.



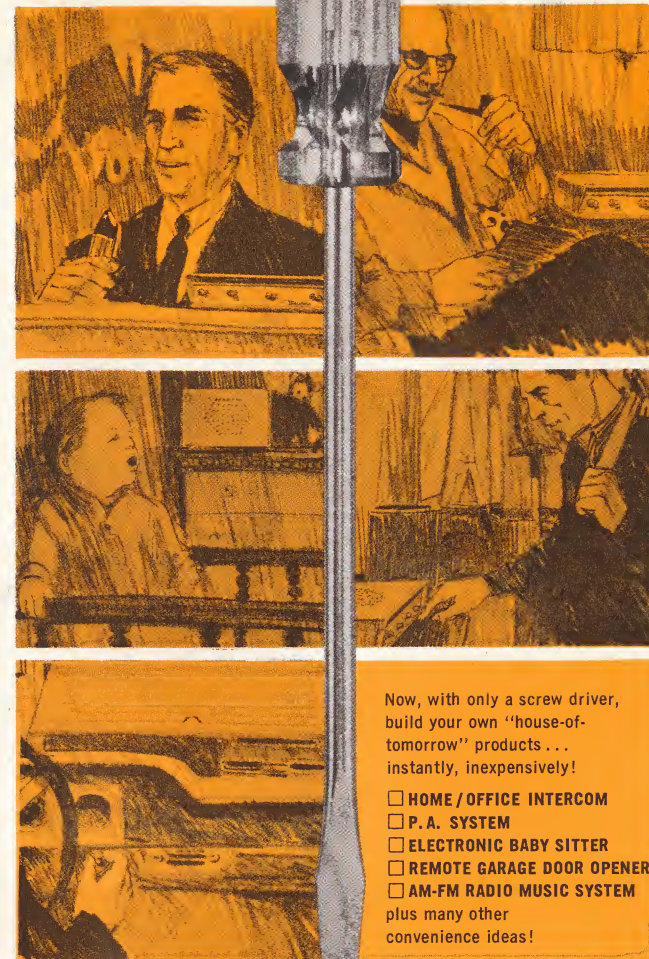
DANGER BLINKER-BEACON

When stopped along a busy highway at night to change a tire, quickly snap on this self-contained IRect-o-pak and a blinking light warns other motorists of your presence. Flip a switch, and you've got a long-lasting beacon flashlight.



LOUD HAILER ELECTRONIC MEGAPHONE

Now, your voice can carry hundreds of feet. A yachting essential. It's a handy accessory to use at picnics, ball games. Again... just snap on this IRect-o-pak and plug in its accessories.



Now, with only a screw driver, build your own "house-of-tomorrow" products... instantly, inexpensively!

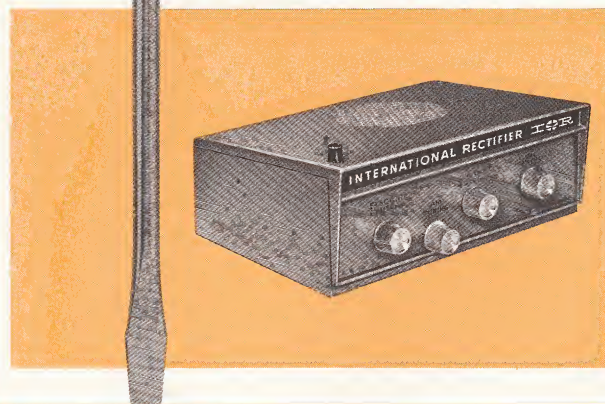
- ☐ HOME/OFFICE INTERCOM
 - ☐ P. A. SYSTEM
 - ☐ ELECTRONIC BABY SITTER
 - ☐ REMOTE GARAGE DOOR OPENER
 - ☐ AM-FM RADIO MUSIC SYSTEM
- plus many other convenience ideas!

A NEW ADVENTURE IN PREFABRICATED ELECTRONICS

IOR
INTERNATIONAL RECTIFIER

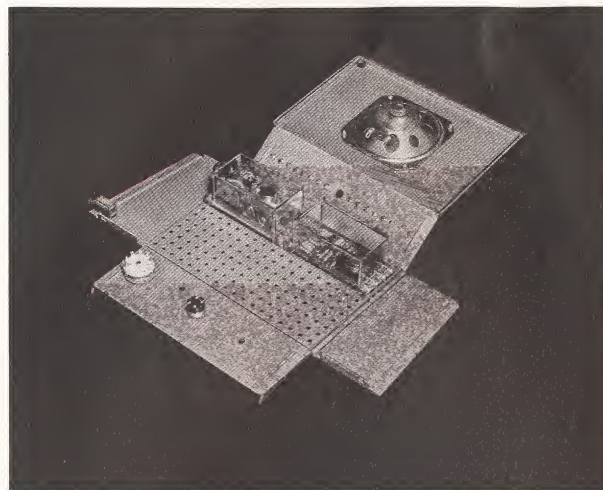
1

Suppose you want an Intercom. Start with this inexpensive, modern cabinet*... and just a screw driver.



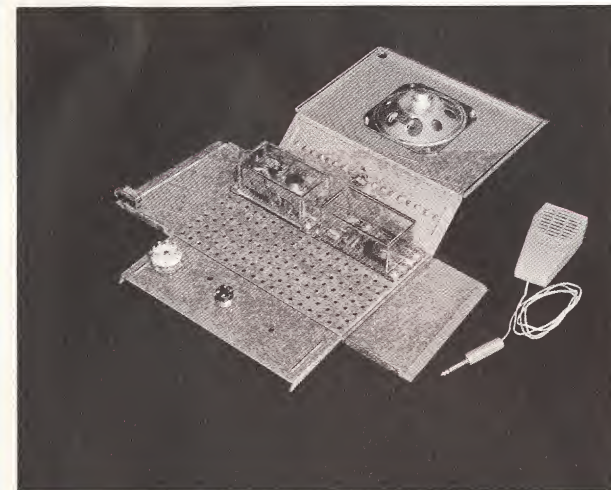
2

Add the specific IRect-o-paks and a few accessories... to build a DELUXE INTERCOM.



3

Later, add only 3 more low-cost accessories... and you now have a PUBLIC ADDRESS AMPLIFIER and a DELUXE INTERCOM.



IRECTRONICS®

(ī rĕk trŏn' ics)

A

NEW IDEA

IOR
INTERNATIONAL RECTIFIER

Created by International Rectifier Corporation from the space-age technology of missiles and satellites. This is *prefabricated electronics*—a unique concept that enables anybody to build complex electronic equipment with *just a screw driver* and extremely simple instructions. Making the difficult easy and *economical*... this is the miracle of IRElectronics.

IRECT-O-PAK®

(ī rĕk' tō pāk)

A

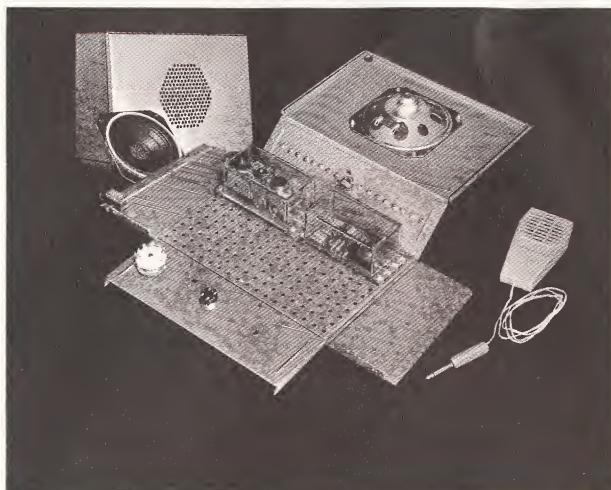
"BUILDING BLOCK"

IOR
INTERNATIONAL RECTIFIER

*PATENTS PENDING

4

Next, add 2 more accessories...to create an **AMPLIFIED BABY SITTER**, a **PUBLIC ADDRESS AMPLIFIER**, and a **DELUXE INTERCOM**.



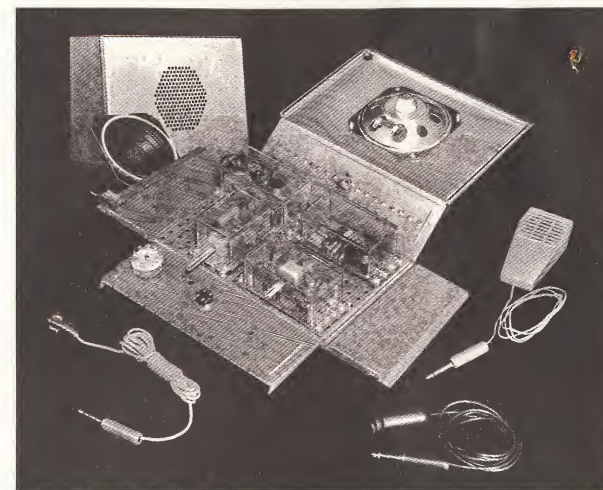
5

Then, add 1 more accessory...to own a **TELEPHONE AMPLIFIER**, an **AMPLIFIED BABY SITTER**, a **PUBLIC ADDRESS AMPLIFIER**, and a **DELUXE INTERCOM**.



6

At any time, you can add accessories or IRect-o-paks to still further expand your system. With IRect-o-paks add AM or FM radio music throughout the home...a guitar amplifier, remote control conveniences, etc.



Designed to let you construct a variety of household electronic projects *instantly*. Whether you'd like an intercom, a garage door opener, an AM-FM radio, or a public address system, etc., every component is a completely pre-assembled module, already wired for you. This is a self-contained IRect-o-pak—each a different miniaturized (solid-state) circuit sealed in lifetime plastic.

I R ELECTRONICS®

OFFERS
A BIG
PLUS



This is the multi-purpose concept behind prefabricated electronics. No matter what project you begin with, you can always increase its original function, expand its usefulness by simply adding another specific IRect-o-pak or a few low-cost accessories. All this from the one original project...and all at a fraction of what these electronic products would cost separately.

Turn to reverse side for other IRectronic Projects